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Require file for the ERF facility

Version 'V04-000'

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FACILITY: ERF, Errorlog Report Formatter

ABSTRACT:

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This file contains definitions of general applicability to the error log report formatter (ERF) facility.

ENVIRONMENT:

VAX/VMS operating system. unprivileged user mode,

AUTHOR: Elliott A. DRAYTON

7-Feb-1983

Modified by:

V03-006 SAR0283 Sharon A.Reynolds 2-Jul-1984 Added build_fao_string and format string macros.

V03-005 EAD0144 Elliott A. Drayton 12-Apr-1984 Changed library to LIB.

V03-004 SAR0247 Sharon A. Reynolds 9-Apr-1984 Added cstring and store_strings macros.

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Added literals for histogram support.
         V03-002 SAR0012
                                      Sharon Reynolds,
                                                                            18-Apr-1983
                   Added literals for /summary support.
         V03-001 EAD0091
                                      Elliott A. Drayton
                                                                            13-Apr-1983
                   Add literals for report modes.
1--
SWITCHES ADDRESSING_MODE(EXTERNAL=GENERAL, NONEXTERNAL=GENERAL);
Psect global = EMB (pic,global,overlay,share,noexecute,read,write);
Psect global = SYECOM (pic.global.overlay.share.noexecute.read.write);
PSECT
     CODE = $code (PIC, ADDRESSING_MODE(GENERAL)),
    OWN = SOWNS (PIC, ADDRESSING MODE (GENERAL)),
GLOBAL = SGLOBALS (PIC, ADDRESSING MODE (GENERAL)),
PLIT = Split (PIC, ADDRESSING MODE (GENERAL));
LIBRARY 'SYS$LIBRARY:LIB':
                                               ! VAX/VMS common definitions
LITERAL
    All_summ_out = 1,
Brief_rep = 1,
                                        Brief report type
     Dev_summ_out = 2
                                        Output device summary type
    Dev_summ_upd = 3,
Entry_summ_out = 4,
                                        Update device summary type
                                        Output entry summary type
    Entry summ upd = 5,
Full rep = 2,
                                        Update entry summary type
                                        full report type
     Memory_summ_out_= 6,
                                        Output memory summary type
     Reg_dump_rep = 3,
                                        Register dump report type
     Volume_summ_out = 7,
                                        Output volume summary type
     Histo_{\overline{s}umm_{\overline{u}}pd} = 8,
                                        Update histogram summary type
    Histo_summ_out = 9,
True = 1,
                                        Output histogram summary type
    false = 0.
     DC$_ZERO_CLASS = 0:
FIELD
         Desc_fields = SET
                            Desc_one = [0,0,32,0],
Desc_two = [2,0,32,0]
                          TES:
MACRO
       Define the SD macro, which will generate static string descripturs.
     SD[A] = Global bind %name(A,'_DESC') = $DESCRIPTOR(A) %,
```

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Define message vector offsets
    msg$w_arg_cnt = 0.0.16.1 %,
msg$w_msg_flg = 2.0.16.1 %,
msg$l_msg_id = 4.0.32.0 %,
msg$w_new_fig = 8.0.16.1 %,
msg$w_new_fig = 8.0.16.1 %,
msg$k_FAO_cnt = 10.0.16.1 %,
msg$k_FAO_arg1 = 12.0.32.0 %,
msg$k_FAO_arg2 = 16.0.32.0 %,
msg$k_FAO_arg3 = 20.0.32.0 %,
driver_type = 18.0.0.0 %,
  CLI PARSING MACROS --
          Determine if a command line entity is present or get its value
GET_PRESENT (STRING) =
           BEGIN
          EXTERNAL ROUTINE CLISPRESENT: ADDRESSING_MODE (GENERAL);
           CLISPRESENT (AD (STRING))
          ENDX.
GET_VALUE (STRING, DESC) =
           BEGIN
           EXTERNAL ROUTINE CLISGET_VALUE: ADDRESSING_MODE (GENERAL);
           CLISGET_VALUE ( AD (STRING), DESC)
           ENDX.
!CALL_FUNCTION MACRO --
          This macro executes COMMAND and test the returned status.
     CALL_FUNCTION (command) =
          BEGIN
          LOCAL
               status;
          status = command;
           If NOT .status
           THEN
                RETURN .status;
          ENDX,
  A) Macro to describe a string
  B) Macro to generate a quadword string descriptor
  () Macro to generate the address of a string descriptor
! D) Macro to abbreviate last macro
     PRIMDESC [] = %CHARCOUNT (%STRING (%REMAINING)),
UPLIT (%STRING (%REMAINING))%,
     INITDESC [] = $BBLOCK [DSC$C_S_BLN]
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INITIAL (PRIMDESC (*REMAINING)) *.
  ADDRDESC [] = UPLIT (PRIMDESC (%REMAINING))%,
  AD []
              = ADDRDESC (%REMAINING)%,
Define a macro that generates pointers to counted ascii strings.
  CSTRING (string) = Uplit byte (%ASCIC string) %,
Define a macro (PUT_STRING) that will describe a string.
Define a macro (STORE_STRINGS) that will allocate a block of quadword
string descriptors and initialize them with the specified text.
   call format:
      STORE_STRINGS (name of descriptor table (to be appended to '_desc_tbl'),
                      'string1'
                      'string2'):
  PUT_STRING [string] =
                              %CHARCOUNT(%STRING(string)),
                              Uplit (%STRING(string)) % ,
  STORE_STRINGS (name) =
      Literal
          OWN
          %name(%string(name,'_desc_tbl')) :
                      BLOCKVECTOR [Iname(name, 'number'),2]
                       Initial (PUT_STRING(TREMAINING)); T,
Define a macro that will build an fao control string.
      repeat_cnt = number of times to repeat the string.
      string = the string.
      dst_dest = address of destination descriptor.
  BUILD_fAO_STRING (repeat_cnt,string,dst_desc) [] =
      Beain
      Bind str_desc = %ASCID string : $BBLOCK ;
      Incr I from 1 to repeat_cnt do
         Begin
CH$MOVE (.str_desc[dsc$w_length],
                   .str_desc[dsc$a_pointer]
                   .dst_desc[dsc$a_pointer]+.dst_desc[dsc$w_length]);
          Dst_desc[dsc$w_length] = .dst_desc[dsc$w_length] +
                                   .str_desc[dsc$w_length] ;
      BUILD_FAO_STRING(TREMAINING);
      End X.
Define a macro that will call SFAOL to format a string.
  FORMAT_STRING (fao_str,dst_desc,arg_ist) =
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